File #	Original File Name
1	PAC2001_SMMT_R-M_NITRATE-RADICAL_DOAS_20010816D14_V1.csv

	Principal Investigator Namelast first	•	File Contents Descriptionshort long	As Reported in Main Table	Sampling Frequency Of Data in	Quality	Organization Acronym				Network		State Or Province Code
NARSTO 2002/05/28 (2.301)	McLaren ; Dr. Robert	Atmospheric			Variable interval	1		University	Robert McLaren, Centre for Atmospheric Chemistry, York University	PAC2001		CA (CANADA)	BC

Principal Investigator Contact Information	Co-investigator Namelast first	Co-investigator Affiliation	Person Who	Date Of Last Modification To Data In Main Table	Used To		archive
Centre for Atmospheric Chemistry, York University, 4700 Keele St., Toronto M3J 1P3; 416-736-2100 x30675; rmclaren@yorku.ca	None ; None		Robert McLaren, Centre for Atmospheric Chemistry, York University		MS Excel/2000	,	2004/10/05 ; 1

Table Explanation Of Zero Or Negative Values	Table Explanation Of Reported Detection Limit Values	Table Explanation Of Reported Uncertainty	Table User Note
Zero and negative values are present in this table, they have not been removed or modified, but have been flagged with the V1 flag, as have been all below detection limit estimates. All averaged optical spectra were analyzed for the presence of the 662.3 nm signature absorption peak of the NO3 radical, through integration, whether or not a peak was observable in the spectra or not. This results in many negative and near zero values when NO3 is below the detection limit. These values are statistically significant when looking at a large group of data points, time series of the data, etc.	limit, positive, zero, or negative, are reported as such and are flagged as V1	The absolute uncertainty in ppt is reported for each measurement representing 1.0 standard deviations (68% confidence interval). This uncertainty represents a propogation of errors associated with the following uncertainties: uncertainty of extracting 662.3 nm signal from absorption file throughintegration (multiple integrations were performed for each spectra); uncertainty in integrated cross section of 662.3 nm absorption feature, uncertainty in path length.	

User	User	 Table Name	Table Focus
			Remote sensed profilefrom surface

Site Information

Site ID	Name	State Province code		Longitude:	height above	Ground elevation above sea level (m)	Site land	Site location setting	Measurement start date			Study site ID	Lat Ion accuracy
	Sumas DOAS site, temporary site with 3km path	BC	49.04639	-122.24166		195.1	Other	Rural	2001/08/20	2001/08/31	None		15

Flag: NARSTO	Description
H1	Historical data that have not been assessed or validated
	Historical data that have not been assessed or validated
	Historical data that have not been assessed or validated
M1	Missing value because no value is available
	Missing value because no value is available
	Missing value because no value is available
M2	Missing value because invalidated by data originator
	Missing value because invalidated by data originator
	Missing value because invalidated by data originator
V0	Valid value
	Valid value
	Valid value
V1	Valid value but comprised wholly or partially of below detection limit data
	Valid value but comprised wholly or partially of below detection limit data
	Valid value but comprised wholly or partially of below detection limit data
V2	Valid estimated value
	Valid estimated value
	Valid estimated value
V3	Valid interpolated value
	Valid interpolated value
	Valid interpolated value
V4	Valid value despite failing to meet some QC or statistical criteria
	Valid value despite failing to meet some QC or statistical criteria
	Valid value despite failing to meet some QC or statistical criteria
V5	Valid value but qualified because of possible contamination (e.g., pollution source, laboratory contamination source)
	Valid value but qualified because of possible contamination (e.g., pollution source, laboratory contamination source)
	Valid value but qualified because of possible contamination (e.g., pollution source, laboratory contamination source)
V6	Valid value but qualified due to non-standard sampling conditions (e.g., instrument malfunction, sample handling)
	Valid value but qualified due to non-standard sampling conditions (e.g., instrument malfunction, sample handling)
	Valid value but qualified due to non-standard sampling conditions (e.g., instrument malfunction, sample handling)

Flag: NARSTO	Description
V7	Valid value but set equal to the detection limit (DL) because the measured value was below the DL
	Valid value but set equal to the detection limit (DL) because the measured value was below the DL
	Valid value but set equal to the detection limit (DL) because the measured value was below the DL

NAtChem Time Series Plot 21MAR2005

Site ID: **PC01CABCSMDO** Variable name: **Nitrogen oxide (NO3)** Common Name: **Nitrate radical** Units: **pptv** Sampling interval: **Variable interval** CAS ID: **C12033-49-7** Observation type: **Gas** Field sampling or measurement principle: **DOAS** Blank Correction: **Not blank corrected** Sampling Height above ground (m): **Variable over 3.4 km beam** Wavelength (NM): **662.30** Wavelength--lower bound (NM): **658.90** Wavelength--upper bound (NM): **667.00** Instrument name and model number: **Research Instrument** Detection Limit: **Varies--see Detection limit column**

Site Name: Sumas DOAS site, temporary site with 3km path, British Columbia Latitude: 49.04639 deg. Longitude: -122.24166 deg. Start Date: 2001-08-20 End Date: 2001-08-

